General information

Wellbore name	25/2-18 C
Type	EXPLORATION
Purpose	APPRAISAL
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORTH SEA
Field	HUGIN
Discovery	25/2-18 S (Langfjellet)
Well name	25/2-18
Seismic location	DN13303-04010. SP 1295 / DN13303-02005. SP 1214
Production licence	442
Drilling operator	Aker BP ASA
Drill permit	1642-L
Drilling facility	MAERSK INTERCEPTOR
Drilling days	18
Entered date	31.10.2016
Completed date	17.11.2016
Release date	17.11.2018
Publication date	17.11.2018
Purpose - planned	APPRAISAL
Reentry	NO
Content	OIL
Discovery wellbore	NO
1st level with HC, age	MIDDLE JURASSIC
1st level with HC, formation	HUGIN FM
2nd level with HC, age	EARLY JURASSIC
2nd level with HC, formation	SLEIPNER FM
Kelly bushing elevation [m]	55.0
Water depth [m]	121.0
Total depth (MD) [m RKB]	4369.0
Final vertical depth (TVD) [m RKB]	4029.0
Maximum inclination [°]	36.8
Bottom hole temperature [°C]	133
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	DRAKE FM
Geodetic datum	ED50

NS degrees	59° 49' 30.11'' N
EW degrees	2° 37' 54.1'' E
NS UTM [m]	6632137.57
EW UTM [m]	479347.43
UTM zone	31
NPDID wellbore	8061

Wellbore history

Wellbore history

Well 25/2-18 C is the third geological sidetrack to well 25/2-10 S, located on the Bjørgvin Arch, four kilometers south of the 25/2-10 S (Frigg Gamma Delta) oil/gas discovery and eight kilometers north of the Frøy field in the North Sea. The 25/2-18 S well and the first sidetrack proved oil in the Middle Jurassic Hugin Formation, the Langfjellet prospect. The second sidetrack, 25/2-18 B was dry. The sidetrack 25/2-18 C was drilled to the west of the main wellbore, located in a separate segment of the Langfjellet structure. Objective for sidetrack 25/2-18 C was to test the hydrocarbon potential in Hugin and Sleipner Formations.

Operations and results

Appraisal well 25/2-18 C was kicked off at 1575 m in the main well bore on 31 October 2016. It was drilled with the jack-up installation Mærsk Interceptor to TD at 4369 m (4029 m TVD) m in the Early Jurassic Drake Formation. No significant problem was encountered in the operations. The well was drilled with Versatec oil based mud from kick-off to TD.

Top Hugin Formation was encountered at 3887 m (3563.4 m TVD) and top Sleipner Formation at 4029 m (3700.4 m TVD). A 137 m TVD gross oil column within in the Hugin Formation was proven in the well with an oil-down-to contact at 4028 m (3699 m TVD). In addition, a condensate column was encountered within the Sleipner Formation with a condensate-water contact 4184.6 m (3850.8 m TVD). This gives gross column of 16 m within the Sleipner Formation. There were no reliable oil show above the OBM in the well.

No conventional cores were cut. MDT fluid samples were taken at 3891.54 m (oil), 3891.55 m (oil), 3941.56 m (oil), 3963.21 m (water and OBM filtrate), 3983.14 m, and 4178.8 m (condensate).

The well was permanently abandoned on 17 November 2016 as an oil appraisal well.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1540.00	4369.00

Cuttings available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
171	NORDLAND GP
506	UTSIRA FM
642	HORDALAND GP
642	SKADE FM
1446	UNDEFINED GP
1542	HORDALAND GP
2149	ROGALAND GP
2149	BALDER FM
2244	SELE FM
2308	HERMOD FM
2366	LISTA FM
2647	VÅLE FM
2755	SHETLAND GP
2755	EKOFISK FM
2781	HARDRÅDE FM
3073	KYRRE FM
3342	TRYGGVASON FM
3509	BLODØKS FM
3517	SVARTE FM
3559	RØDBY FM
3612	SOLA FM
3647	ÅSGARD FM
3663	VIKING GP
3663	DRAUPNE FM
3772	HEATHER FM
3887	VESTLAND GP
3887	HUGIN FM
4029	SLEIPNER FM
4301	DUNLIN GP
4301	DRAKE FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
LWD - DI GR RES PWD NEU DEN SIG	1575	4369
MDT PRESS SAMP TRANSTEST	3891	4237
RES DEN NEU IM GR	1535	4325

Casing and leak-off tests

Casing type	Casing diam. [inch]	Casing depth [m]	Hole diam. [inch]	Hole depth [m]	LOT/FIT mud eqv. [g/cm3]	Formation test type
CONDUCTOR	30	214.0	36	214.0	0.00	
SURF.COND.	20	444.5	26	450.0	1.32	LOT
PILOT HOLE		450.0	9 7/8	450.0	0.00	
SURF.COND.	13 3/8	1533.5	16	1541.0	1.58	FIT
OPEN HOLE		4369.0	8 1/2	4369.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
2351	1.30	31.0		Versatec	
3988	1.30	27.0		Versatec	
4369	0.92			Versatec	
4369	1.30	28.0		Versatec	